

MIPEG SYSTEMS USER REFERENCE LIST

MIPEG Systems have been extensively installed on a wide variety of cranes. Systems are operating offshore in all parts of the world. The systems are used on fixed platforms, drilling rigs, pipe laying barges, lift boats, FPSO's and drill ships. Units have also been fitted to high integrity overhead travelling cranes in the Nuclear Electricity Generating Field, cranes operated by Ministry of Defence (UK), Corps of Engineers (USA) and US Navy

The current 'family' of MIPEG Systems comprises:

MIPEG 2000R	-	Load/Moment Dynamic Monitoring and Recording System
MIPEG 2000NR	-	Automatic Safe Load Indicator
MIPEG RSI	-	Rope Speed/Direction Indicating Device
MIPEG OLM	-	Operating Limits Monitor

To date, more than **2173** MIPEG Systems have been delivered by Aanderaa Data Instruments A.S. Details of the operators and locations of the MIPEG Systems are listed below.

OPERATORS :

ACT, AES OTTO INDUSTRIES, ADMA OPCO, AIOC, AGIP, AMERADA HESS, APACHE ENERGY, ARABIAN DRILLING, ATLANTIC DRILLING, ATP O&G, ATWOOD OCEANICS, AWILCO, BASS DRILL, BETA DRILLING, BHP, BIBBY OFFSHORE, BRITISH GAS, BP, BP VESTAR, BW OFFSHORE, CACT, CENTRICA, CNR-CANADIAN NATIONAL RESOURCES, CHEVRON-TEXACO, CLEARWAYS DRILLING, CLOUGH, CLYDE PETROLEUM, CONSAFE, COSDC, CNOOC, CONOCO-PHILLIPS, CORPS OF ENGINEERS, CPOE, DANOS&CUROLE, DEVON ENERGY, DIAMOND OFFSHORE, DOLPHIN DRILLING, DOMINION EXPL. DYNEGY, DYVI OFFSHORE, E-ON, ENCANA, EL PASO ENERGY, ENSCO, ENTERPRISE OIL, ENSERCH, ETESCO, EXMAR OFFSHORE, EXXONMOBIL, EZRA MARINE, FLUOR DANIEL, FRONTIER DRILLING, GAS de FRANCE, GLOMAR INTERNATIONAL, GSP UPETROM, GULF OFFSHORE, GUPCO, GUSTO, HELMERICH & PAYNE, HYDROCARBON RESOURCES, I.P.C, IRAN MARINE, J. RAY McDERMOTT, KCA DEUTAG, KERR McGEE, KIEWIT, KPOC, KONO, KS ENERGY, LARSEN OIL, LASMO, LUKOIL, LUNDIN, MAERSK DRILLING, MAERSK OIL, PALLADIN RESOURCES, PETROSERVE, MALLARD DRILLING, MARATHON, MARLIN, MEDITERANEAN, MINISTRY OF DEFENCE, MOBIL, MODEC, MONTCO, MOSVOLD, MSR, MURPHY OIL, NAM, NATIONAL DRILLING, NATIONAL OIL COMPANY OF CHINA, NEDRILL, NEXEN, NIPPON INDONESIA, NOR OFFSHORE, NORSK HYDRO, N.P.C.C., NUCLEAR ELECTRIC, OCEANEERING, ODIN RIG SERVICE, ONGC INDIA, ORION DRILLING, ORYX, OXY of QATAR, PACIFIC OCEAN ENG., PARS OIL, PETCON, PERENCO, PETRA ENTERPRISE, PETRO-CANADA, PETRO-VIETNAM, PETRONAS, PETROFAC, PETROLIA DRILLING, PRIDE, PEMEX, PETROBRAS, PETROM, PGS PRODUCTION, PREMIER OIL, PROMAR SHIPPING, PROSAFE, PT SEMPEC, QATAR GAS, RASGAS, ROSNEFT, SAGA, GLOBAL SANTA FE, SAUDI ARAMCO, SEAWOLF, SC GRUP SERVICII PETROLIERE, SCHLUMBERGER, SEADRILL, SEATRUCKS, SEMCO, SHANGHAI SHIPYARD, SHELL, SHELL MALAYSIA, SHELL OFFSHORE, SHELL PHILLIPINES, SBM- IMODCO, SMEDVIG, SONGA OFFSHORE, STATOIL, STOLT OFFSHORE, STAR INTERNATIONAL, STENA DRILLING, SUPERIOR ENERGY, SWIBER OFFSHORE, TALISMAN ENERGY, TANKER PACIFIC, TEEKAY SHIPPING, THAI LIZIZ, THULE DRILLING, TODD OIL, TOTALFINAELF, TRANSCANADA, TRANSOCEAN, UNOCAL, UNOCAL INDONESIA, VEBA OIL, VENOCO, VENTURE PRODUCTION, WOODSIDE PETROLEUM, WINTERSHALL.

CRANE MANUFACTURERS:

AKER NYLAND, ALLIED SYSTEMS, AMCLYDE, AMERICAN AERO, AMERICAN HOIST, APPLIED HYDRAULIC SYSTEMS, BRISSONNEAU & LOTZ, BUCYRUS ERIE, BUTTERLEY ENGINEERING, CLARKE CHAPMAN MARINE, DRECO, ENERGY CRANE, FAVELLE FAVCO, FUKUSHIMA, HERCULES, HYDRALIFT MAPE, KEG, KENZ, MAN WOLF-KRAN MARATHON LETOURNEAU, LIEBHERR, LINKBELT, MANITOWOC, MANITEX, NATIONAL, NEI FAVCO, NCK, NOR MAR, PATRIOT-MH, PRIESTMAN, PPM, PYRAMID, SEAREX, SEATRAX, SOUTH CHINA MACHINERY, STOTHERT & PITT, STÅLPRODUKTER, TURMERIC, TITAN INDUSTRIES, TTS-NORLIFT, UNIT MARINER, WEATHERFORD ENTERRA, WELLMAN BOOTH

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Sales & Service in NORWAY, U.A.E, U.K., U.S.A, TRINIDAD, BRAZIL, AUSTRALIA, INDIA & SINGAPORE

LOCATIONS OF MIPEG SYSTEMS

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
ACT	4 MIPEG 500, 2 MIPEG 2000R	China
ADMA OPCO	1 MIPEG 500, 20 MIPEG 2000R, 1 MIPEG OLM, 4 RSI	Um Shaif, Al Hyleh, ZWSC GGII, ZW-ZAP, ZWSC GGII, Al Hyleh Barge, Um Shaif Super Complex, Demothballing, Poim11,IGD-HAP, GPF
AES OTTO INDUSTRIAL	2 MIPEG 2000NR	Hull 7029&30
AIOC	3 MIPEG 2000R, 3 MIPEG 2000 NR, 5MIPEG RSI, 2 OLM	Chirag 1, WC PDQ
AGIP	2 MIPEG 1000, 3 MIPEG 2000R	Tiffany, Golfhino
AKER	2 MIPEG 2000N.R, 4 MIPEG 2000R	Lufeng, Pierce, Adriatico LNG
AMERADA HESS	6 MIPEG 1000, 7 MIPEG 2000 R, 4 RSI, 1 MIPEG OLM	AH 001, Scott, Triton, Okume & Oveng TLP
APACHE ENERGY	1 MIPEG 2000 N.R, 2 MIPEG 2000R, 2 MIPEG 1000,	Stag, Forties A&C, Unity, Echo, Forties Bravo
ARABIAN DRILLING	2 MIPEG 2000 NR	AD-08
ARKTICHESKAYA	2 MIPEG 2000 NR	
ATLANTIC DRILLING	1 MIPEG 2000R	Atlantic Star
ATP Oil&Gas	2 MIPEG 2000NR	Bluewater Mirage
ATWOOD OCEANICS	20 MIPEG 2000 N.R, 6 MIPEG 2000R	SS Falcon, Eagle, Hunter, Beacon, SeaHawk, Southern Cross, Richmond, Atwood 10, 11, Aurora
AWILCO	3 MIPEG 2000R	Wilphoenix
BASS DRILL	2 MIPEG 2000 NR	Medium Tender Barge
BETA DRILLING	2 MIPEG 2000NR	Murmanskaya
BRITISH PETROLEUM	25 MIPEG 1000, 6 MIPEG 500, 2 MIPEG OLM 77 MIPEG 2000R, 41 MIPEG N.R, 12 RSI, 7GOP	Amethyst, Ula, South East Forties, Hyde,Magnus, West Sole, Cleeton, Ravenspurn, Gyda, Miller, Bruce, Harding, Andrew, Etaps, Schiehallion, Baku, Hod, CATS Riser, Lomond, North Everest, Lihua, Mahogany, A&B, Amherstia,Trinidad , Marlin Imortelle, Kapok, Cassia, Indonesia, Camelot, Holstein, Thunder Horse, Cannonball, West Java, Atlantis, Rhump LP, Montrose, Azeri, Savonette, ST2, Serette, Sean PP, Intiglal, Claire Ridge
BP VESTAR	2 MIPEG N.R,	Horn Mountain
BHP	5 MIPEG 1000, 1 MIPEG GOP, 1 MIPEG 500, 4MIPEG 2000NR, 6 Mipeg R	Douglas, DDL, WL, Irish Sea Pioneer, Liverpool Bay Pioneer, Billinton, Angostura, Shenzi TLP
BIBBY OFFSHORE	1 MIPEG 2000R, 1 RSI	Bibby Saphir
BRITANNIA OPERATORS	2 MIPEG 1000, 2 ECRS, 2 Mipeg 2000 R	Britannia
BRITISH GAS	5 MIPEG 1000, 8 MIPEG 500, 5 MIPEG 100-GOP, 8 MIPEG RSI, 2 ECRS, 11 MIPEG 2000R, 3 MIPEG 2000 N.R	Miskar, Armada, Trinidad, Dolphin, Hibiscus, Millom West, Calder, Poinsettia

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
BW OFFSHORE	6 MIPEG 2000 NR, 1 MIPEG 2000	Cidade de Sao Vicente, Azurite, Berge Helene
CACT	8 MIPEG 2000 R, 2 MIPEG NR	Huizhou 19-3/2/1, HZ21-1B, HZ21, HZ26, HZ 25-3-1
CENTRICA	8 MIPEG 2000R	Rough, Morecambe API, DP4, CPN
CHEVRON-TEXACO	2 MIPEG 1000, 4 MIPEG 500, 39 MIPEG 2000 NR, 10 MIPEG 2000 R, 3 RSI	Alba, Angola, Genesis, North, Nemba, Venezuela, GIP-Fox/Delta&Hotel, Kuito, Bombaco, Sahna, Benguela Belize, Petronias, Tahiti, Blind Faith, Cabgoc Takula & Mafumeria, Tombua, Anna, Bruce, Sanha, Captain, GS November, Cabgoc Malongo, Erskine, Mafumeira Sul, NPW
COSDC	7 MIPEG 2000 N.R	Nan Hai # 4, Nan Hai #6
COSL	13 MIPEG 2000 NR	Haiyang, Bohai 8&10, Haiyangshiyou
CNOOC	10 MIPEG 2000 NR	China, Bonkot 7, H218, LW3-1, Panyu 34-1
CNR	11 MIPEG 2000R, 2 MIPEG 2000NR, 1 MIPEG 1000, 8 MIPEG RSI	Ninian, Murchison, Baobab, Balmoral
CONOCO-PHILLIPS	13 MIPEG 1000, 3 MIPEG GOP, 8 MIPEG 2000 N.R 44 MIPEG 2000 R, 4 MIPEG OLM, 27 MIPEG RSI, 2 MIPEG 500	Viking, Venture, Caister, LOGGS, Belanak, Su Tu Den, Magnolia, Murdoch, Ekofisk Complex, Judy-Joanne, Bayu Undan, Peng Lay 19-3, Corocoro, Bohai Bay, Britannia Sat., Su Tu Vang, Viking BP, PL19-3, Su Tu Trang
CONSAFE OFFSHORE	2 MIPEG 2000R	Bristol A, Astoria
CORPS OF ENGINEERS	2 MIPEG 2000N.R	Pittsburg, Panama City
CLOUGH Australia	3 MIPEG 2000 NR	Hazira, Maari WHP
CLYDE PETROLEUM	1 MIPEG 2000 R	Expl-Q4A
CPOE	8 MIPEG 2000NR	Rig 7/8/9/10
DANOS & CUROLE	1 MIPEG 2000 NR	Ana Jack-up vessel
DEVON ENERGY	4 MIPEG 2000 R, 1 MIPEG 2000NR	Panyu 4-2/5-1, BM-C-8 Polvo
DIAMOND OFFSHORE	72 MIPEG 2000N.R., 2 Mipeg RSI	Ocean Guardian, Victory, Nomad, Lexington, Ambassador, Concord, Saratoga, Quest, Star, Summit, Rover, Voyager, Yorktown, King, Crusader, Valiant, Nugget, Baronesse, Winner, Spur, Spartan, Whittington, Warwick, America, Heritage, Shield, Scepter, Sovereign, Worker
DOLPHIN DRILLING	1 MIPEG 2000R	Byford Dolphin
DOMINION EXPLORATION	2 MIPEG 2000 N.R	Devils Tower
DYNEGY	1 MIPEG 500	Rough

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
E-ON	1 MIPEG 2000 NR	Babbage field
ELF QATAR	3 MIPEG 2000 NR	Al Khalij Northern
EL PASO ENERGY	2 MIPEG 2000 NR	Marco Polo
ENCANA (UK) LIMITED	3 MIPEG , 3 MIEG OLM	Buzzard
ENSCO	22 MIPEG 2000 NR, 2 MIPEG 2000 R	Ensko 74, Ensko 75, Ensko 104, Perfordora, Ensko 105, Ensko 8500,8501, 8502, 8503
ENSERCH	3 MIPEG 500	Garden Banks
ENTERPRISE OIL	2 MIPEG 1000, 2 MIPEG 2000NR	Nelson, Independence Hub
ETESCO	2 MIPEG 2000R	Galaxy Driller
EZRA MARINE	5 MIPEG 2000NR	Hull 0489, Treas 5 & 6
EXMAR OFFSHORE	2 MIPEG 2000R	OPTI
EXXON MOBIL	15 MIPEG 2000 R, 25 MIPEG 2000 NR, 4 MIPEG RSI, 4 MIPEG GOP 3 MIPEG OLM	Jotun, Kizomba A & B, Sable, Kome, Erha, Alma, Thames, Sable Tier II, OSO, Zafiro Producer, YP-Lift, Alba, U1 & U3 Lift, NGGO, NGGN
FLUOR DANIEL	2 MIPEG 2000 R	Bleu Holm
FRONTIER DRILLING	3 MIPEG 2000 N.R	Frontier Duchess
GAS de FRANCE	8 MIPEG 2000 R, 1 MIPEG 300, 2 MIPEG 2000NR	L10 AD, G17D-AP, L10F, G14,16, K12, G14B, Training crane, K12- West
GODINA	3 MIPEG 2000 N.R	Ku`Maloop`Zaap
GLOBAL SANTA FE	62 MIPEG 2000 R, 95 MIPEG 2000 N.R, 12 MIPEG OLM, 4 MIPEG RSI	Galaxy I, II, III, Britannia, Dada Gorgud, Key Burmuda, Rig 103, 105, 124, 127, 134, 135, 136, 140, 141, 182, 183, 534 Monarch, Magellan, Glomar Drillship, Glomar Celtic Sea, Glomar Explorer, C.R. Luigs, Jack Ryan, Adriatic II, III, IV, V, IX, X, XI Key Manhattan, Key Singapore, Key Gibraltar, Compact Driller, High Island I, II, III IV, 5, 7, VIII, 9, Monitor, Parameswara, Perfordora, Grand Banks, Main Pass I, IV, Glomar Grand Banks, Key Hawaii, Aleutian Key
GSP UPETROM	7 MIPEG 2000NR	Atlas, Jupiter, Saturn
GULF OFFSHORE	3 MIPEG 2000NR	Port of Fourchon
GUPCO	3 MIPEG 2000 NR	Egypt
GUSTO	6 MIPEG NR	
J. Ray McDermott	1 MIPEG 2000NR, 3 MIPEG 2000 R	Reliance KD G6, Shell Pearl 1+2, Pearl GTL
HELMERICH & PAYNE	3 MIPEG 2000 R	Jade
HYDROCARBON RESOURCES	6 MIPEG 1000, 1 MIPEG RSI, 3 MIPEG 2000 R	Morecambe Bay, North Morecambe

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
IP.C	1 MIPEG 2000N.R.	Malaysia
IRAN MARINE	6 MIPEG 2000 R	PLB Iran
KCA DEUTAG	4 MIPEG 2000NR	Rig 140, Ben Rinnes
KERR McGEE	2 MIPEG 1000, 3 MIPEG 2000 NR,	Hutton TLP, Gunnison, Red Hawk, Constitution
KIEWIT OFFSHORE	4 MIPEG 2000 NR, 4 MIPEG 2000 R	Peregrino WHP A & B
KPOC	2 MIPEG 2000 R, 2 MIPEG RSI, 2 MIPEG OLM	Kebabangan (KBB)
KPONO OIL	1 MIPEG 2000 N.R, 1 MIPEG OLM	Amenam
KS ENERGY	1 MIPEG 2000 N.R	Hull 107, OBG Hysy 298
LARSEN OIL	2 Mipeg 2000 NR	LarsenRig 1
LASMO	1 MIPEG 2000 R	J6-A
LUKOIL	2 MIPEG 2000 NR, 4 MIPEG 2000R	Kravtsovskoje (D-6), Volgograd, Kalingrad, LSP1
LUNDIN	7 MIPEG 2000R, 2 MIPEG OLM, 2 MIPEG RSI	Thistle A, Heather A
MAERSK DRILLING	4 MIPEG 500, 24 MIPEG 2000 NR, 7 MIPEG RSI	Guardian, Enhancer, Explorer, Rig 71&72, Endurer, Exerter, Kan Tan IV, Giant, Jutlander
MAERSK OLIE OG GAS	2 MIPEG 1000, 22 MIPEG 2000N.R, 10 MIPEG 2000R, 6 MIPEG OLM 3 MIPEG RSI	Harald West A, Dagmar, Halfdan, Gorm C, Tyra EA&WB, North Sea Producer, Dan FC, Halfdan B, BE Process, BG Utility, Gryphon
MAERSK QATAR	12 MIPEG 2000R	Al-Shaheen 1-5
MALLARD DRILLING	2 MIPEG 2000 N.R	Caspian Sea
MARATHON	2 MIPEG 1000, 2 MIPEG 2000 N.R, 5 MIPEG 2000R	North Brae, East Brae, Brae A & B
MARLIN OFFSHORE	4 MIPEG 2000 NR	W. D. Kent, PetroRig 3,
MEDITERANEAN	2 MIPEG 2000 R	Zagreb 1
MINISTRY of DEFENCE	4 MIPEG 2000 N.R, 9 MIPEG 2000 R, 1 RSI, 1 MIPEG 300	Swan Hunter, Military ships, Ernesettle
MOBIL	3 MIPEG 500, 1 MIPEG 100-GOP 2 MIPEG 1000, 3 MIPEG 2000N.R., 4 MIPEG 2000 R, 1 OLM	Beryl B, Beryl A South Crane, Beryl A Centre Crane, Nigeria, Welland
MODEC	3 MIPEG 2000 NR	Japan, Nan Hai Sheng Li
MONTCO	2 MIPEG 2000 NR	Tammy, Myrtle
MOSVOLD SHIPPING	6 MIPEG 2000 NR	Hull 105
MSR	1 MIPEG 400	Ailsa Craig
MURPHY OIL	2 MIPEG 2000 N.R	Thunderhawk
NABORS International	3 MIPEG 2000NR	Rig 655, EC 1200, Modular Crane

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
NAM	15 MIPEG 2000R	K14, K14-FB-1, K14-FA-1P, L9-FF-1, K7, K81, K15-FK, K8-1, K15C, L13E, AME2, AWG1C, L13D, K15G, AWG DC02, K15FA1
NATIONAL DRILLING	1 MIPEG 2000NR	Junana
NANHAI	3 MIPEG 2000 N.R, 1 MIPEG 2000R	China, FPSO Faxiaon
NOBLE DRILLING	7 MIPEG 2000 N.R, 3 MIPEG 2000R	Leo Segerius, Hull JU2000E, Hans Duel
NOR OFFSHORE PACIFIC	1 MIPEG 2000 NR	Pipelay Derrick Barge
NORSK HYDRO	8 MIPEG 1000	Oseberg 2, Brage, Troll, Heimdal
N.P.C.C.	1 MIPEG 500, 2 MIPEG NR, 4 MIPEG OLM	United Arab Emirates
NUCLEAR ELECTRIC	7 MIPEG 1000	Sizewell B, Bradwell, Dungeness B, Heysham, Hartlepool
OCEANEERING	1 MIPEG 2000 N.R	Legerde
ODIN RIG SERVICE	2 MIPEG 2000 N.R	Viking Producer
ONGC INDIA	10 MIPEG 2000 N.R, 1 MIPEG 300	Sagar Samarat, N11, N12, BPA, BB, BD, Sagar Kiran
OXY QATAR	1 MIPEG 2000 NR	PS-1R
PACIFIC OCEAN ENG.	6 MIPEG 2000 NR	Accom Barge, S6030 & 31
PALLADIN RESOURCES	1 MIPEG 2000 R, 2 MIPEG 1000	Arbroath, Kittywake
PARS OIL	7 MIPEG 2000 R, 3 MIPEG RSI	South Pars I, II
PERENCO CP Tyne,	1 MIPEG 2000R, 24 MIPEG 2000 NR, 2 MIPEG 1000	Leman, 49/27 AD, 49/27E, 27AX 49/23C, 49/23CD, 49/23D, 49/23 Trent, Trent Jack-up Barge, Pickerill A & B, 49/27AC, 27AP, 27BD, 27DD, 27FD, 49/27CD, 49/18AD, 49/18BP, 49/18AP, 27J, 27H, 49/27AP & AQ
PETRA ENTERPRISE	3 MIPEG 2000NR	Lewek Champion
PETCON	1 MIPEG 2000 NR	Pan Producer
PETRO-CANADA	1 MIPEG 2000 N.R	De Reuter
PETRO-VIETNAM	3 MIPEG 2000 NR	
PETROM	11 MIPEG 2000R	PFCP 1, 3, 5, PFS3, 6, 7, Gloria
PETRONAS	1 MIPEG 2000 N.R, 1 MIPEG 2000 R	Semarang, Diyarbekir
PEMEX	3 MIPEG 2000 NR, 4 MIPEG 2000R	Plata, Cayo Arcas, COSL Drilling
PETROBRAS	3 MIPEG 500, 8 Mipeg 2000 NR, 8 MIPEG 2000 R	Vidal de Negreiros, P-27, Pampo, P-15, P10, P16, PRA-1, P31, Maua, P14
PETROFAC	4 MIPEG 2000R, 2 MIPEG RSI, 1 MIPEG OLM	Montrose, Cendor
PETROLIA DRILLING	1 MIPEG 2000 NR	Deep Venture
PETROSERVE	2 MIPEG 1000, 1 MIPEG 500, 5 Mipeg 2000NR	S.S.V. LOUISIANA, PIPA II FPSO

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
PGS PRODUCTION	2 MIPEG 2000 R	Northern Producer
Premier Oil	2 MIPEG 2000R	Anoa
PRIDE INTERNATIONAL	12 MIPEG 2000 N.R, 2 MIPEG 2000R	Pride North Sea, Pride Venezuela, Barracuda, North America, South Atlantic, Pennsylvania
PROMAR SHIPPING	1 MIPEG 2000R	Promar
PROSAFE	2 MIPEG 2000 N.R	Safe Caledonia
PT SEMPEC	1 MIPEG 2000 NR	Batera
QATAR GAS	2 MIPEG 500, 2 RSI, 9 MIPEG 2000 N.R, 3 MIPEG 2000 R	PR Platform, North Field Bravo, GasII , Platform 3&4, WH1 & 2
RASGAS	11 MIPEG 2000 NR, 3 OLM	WT4, WT5, WT7, WT-9, Barzan
ROSNEFT	1 MIPEG 1000, 1 MIPEG 2000 NR	Ispolin
RUSSIAN FEDERATION	2 MIPEG 2000R	LSP 1 A&B
SAGA	2 MIPEG 1000	Snorre
SAUDI ARAMCO	6 MIPEG 2000 NR	Rig 201, Abu Safah TP-2, Sar 201, JuAyumah, Hull 1011
SC GRUP SERVICII PETR	1 MIPEG 2000R	Akcakoca
SCHLUMBERGER	2 MIPEG 2000 R	Bima Liftboat
SEA WOLF	2 MIPEG 2000NR	Delta Queen
SMB-IMODCO	1 MIPEG 2000 NR	Yoho
SEADRILL	12 MIPEG 2000NR	SeaDrill 8, 9, 13, 14 Petro Rig 1&2
SEMCO	3 MIPEG 2000 NR	Prisa 110, 111, 112
SEATRUCKS	2 MIPEG 2000NR	Jascon 28, 30
SHANGHAI SHIPYARD	3 MIPEG 2000 NR	Hull #
SHELL	31 MIPEG 1000, 3 MIPEG 500, 14 MIPEG RSI, 2 MIPEG GOP 83 MIPEG 2000R, 4 OLM	Tern, Eider, Sole Pit, Gannet, Maui A, Maui B, Draugen,Auk, North Cormorant, Brent, Dunlin Alpha, Cormorant Alpha, Fulmar Alpha, Curlew, Shearwater, Leman BP, Galleon PN, Auk South, Leman AP, Bulan Bulan, K82, K83, K15B, K13C
SHELL MALAYSIA	1 MIPEG 2000 NR	F6
SHELL NIGERIA	4 MIPEG 2000 R, 3 MIPEG 2000 R	EA Field, OGGS, Bonga
SHELL OFFSHORE, USA	2 MIPEG 500, 4 MIPEG 2000R, 11 MIPEG 2000NR	Mars, West Delta 143, Ram Powell, Ursa, Brutus, Nakika, Auger
SHELL PHILLIPINES	3 MIPEG 2000 R	Malampaya, Gumusut Kakap
SLP ENGINEERING	1 MIPEG 2000 R, 1 RSI	ZG-A7901
SMART ENGINEERING	1 MIPEG 2000 R, 1 RSI	CR-A9601

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
SMEDVIG	2 MIPEG 500, 4 MIPEG 2000 NR	'West Kappa', T3, T8,T
SONGA OFFSHORE	6 MIPEG 2000NR, 2 RSI	SSDV Venus, Mercur
SPARROWS	3 MIPEG 2000 NR, 3 MIPEG RSI	Rental and stock cranes
STATOIL	1 MIPEG 1000, 3 MIPEG 2000R	Veslefrikk, Mongstad Jetty 2
STAR INTERNATIONAL	2 MIPEG 2000 R	Olinda Star
STENA DRILLING	5 MIPEG 500, 3 Mipeg 2000 R, 2 Mipeg 2000 NR	Stena Spey, Stena Forth, Stena Clyde
STOLT OFFSHORE	1 MIPEG 400	Seaway Condor
SUPERIOR ENERGY	3 Mipeg 2000 NR	Superior Endeavor, Dixie Legacy, Dixie Endeavor
SWIBER OFFSHORE	4 MIPEG 2000R	Equatorial Driller 1
TALISMAN	6 MIPEG 1000, 11 MIPEG 2000 R, 4 MIPEG OLM, 1 RSI	Clyde, Buchan A, Tartan, Piper B, Saltire, Claymore A, Valhall QP
TANKER PACIFIC	2 MIPEG 2000 NR	FPSO Andaman, Montara
TEEKAY SHIPPING	1 MIPEG 2000 N.R	Karratha Spirit
TORCH	1 MIPEG 2000 N.R	Eva
TotalFinaElf	11 MIPEG 1000, 25 MIPEG 2000 NR, 28 MIPEG 2000 R,	Alwyn, Dunbar, Bonkot, Peciko, ABK Abu Dhabi, Nippon, Abu Al Bukoosh, Nigeria, Frigg, Frøy, Al Khalij, K5 EN/C, K4-A, K7-GT, K4-BE, Aries, Carina, Dalia, Dolphin, Edikan, Amenam, Dalia FPSO, E&P Angola, OFP2, Libondo, Edikan, OFQ
TRANSCANADA	1 MIPEG 2000 R, 2 MIPEG 2000 N.R.	K1A, K12G, G17 d-a
TRANSOCEAN	4 MIPEG 500, 174 MIPEG 2000N.R, 56 MIPEG 2000 R, 4 Mipeg RSI	'Kingsnorth Explorer, Shelf Explorer, Amirante, Marianas, Interocean 3, Rig 97 & 98, Legend Sedco 700, 711,710, 704, 702, 706, Prisa 101, 102, 103, Searex IV, VI, IX, X, Trident 2, 4, 6, 8, 9, 12, 14, 15, 16, 17, 20, Express, Energy, Cajun, Joides Resolution, Actinia, Sovereign Explorer, Iolair, JimCunningham, M..Hulme C. Kirk Rhein, Peregrine I, III, VI, Peregrine IX, F100, Seilean, Expedition, Navigator, Pathfinder, Millennium,, Discovery, Frontier, JW. McLean, Randolph Yost, CE Thornton, FG McClintock, Richardson, Rather, Rig 712, J. Cunningham, Charley Graves, Paul B. Lloyd, Harvey H. Ward, DR Stewart, GH Galloway, Roger W. Mowell, Discoverer Seven Seas, Rig 534, J.T.Angle, Prospect, Henry Goodrich, John Shaw, Driller, Comet, Baltic
THAI LIZIZ	1 MIPEG 2000 NR	Simgood 1
THULE DRILLING	6 MIPEG 2000 NR	Thule Force, Thule Energy

LOCATIONS OF MIPEG SYSTEMS (Continued)

<u>OPERATOR</u>	<u>SYSTEMS</u>	<u>LOCATION</u>
TURKMENISTAN OIL	1 MIPEG 2000 R	
UNOCAL	12 MIPEG 2000 N.R	Indonesia, Balikpapan, North Palin, Serang, West Seno A
US NAVY	7 MIPEG 2000NR	
VEBA OIL	2 MIPEG 2000 N.R	Hanze F2A
VENOCO	1 MIPEG 2000R	Holly
VENTURE PRODUCTION	1 MIPEG 2000R	Markham Field
WEST COAST OIL	2 MIPEG 2000 N.R	C.E.C. Mexico
WINTERSHALL	8 MIPEG 2000R , 1 RSI	Wintershall, D15 FA, A6-A, L8-P4, K13-A, L5-B, D12-A
WOODSIDE PETROLEUM	2 MIPEG 1000, 1 MIPEG 2000 N.R, 3 MIPEG 2000 R	Goodwyn A, Cossack Pioneer, North Rankin
ZADCO	8 MIPEG 500, 6 MIPEG 2000R	U.A.E – Zakum, ACPT II, Upper Zakuum WSP, PGP, WIP,